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OM protein - protein search, using sw model

Run on: November 17, 2003, 17:11:13 ; Search time 15.0179 Seconds
(without alignments)
81.704 Million Cell updates/sec

Title: US-09-749-637A-270
Perfect score: 177

Sequence: 1 LRWCTPSCDLCPTSDHIGCCSGKCAFVCL 29

Scoring table: BLOSUM62

Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:
1: /cgn2_6/ptodata/1/iaa/SA_COMBO.pep:
2: /cgn2_6/ptodata/1/iaa/5B_COMBO.pep:
3: /cgn2_6/ptodata/1/iaa/6A_COMBO.pep:
4: /cgn2_6/ptodata/1/iaa/6B_COMBO.pep:
5: /cgn2_6/ptodata/1/iaa/PC10S_COMBO.pep:
6: /cgn2_6/ptodata/1/iaa/backfiles.pep:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	70	39.5	37	1	US-09-682-485A-4	Sequence 4, Appli
2	70	39.5	37	2	US-08-93-314-4	Sequence 4, Appli
3	66	37.3	78	1	US-07-682-693B-5	Sequence 5, Appli
4	66	37.3	78	1	US-08-62-123-13	Sequence 13, Appli
5	66	37.3	78	2	US-08-716-308-2	Sequence 2, Appli
6	66	37.3	78	2	US-08-716-308-16	Sequence 16, Appli
7	61	34.5	27	1	PCT-US96-05262-14	Sequence 14, Appli
8	58	32.8	37	1	US-07-682-693B-6	Sequence 6, Appli
9	58	32.8	37	1	US-08-682-485A-5	Sequence 5, Appli
10	55.5	31.4	29	4	US-08-913-314-5	Sequence 5, Appli
11	55.5	31.4	29	4	US-09-116-769A-5	Sequence 5, Appli
12	55	29.4	37	1	US-09-136-769A-16	Sequence 16, Appli
13	52	29.4	37	2	US-08-682-485A-2	Sequence 2, Appli
14	52	29.4	37	2	US-08-943-314-2	Sequence 2, Appli
15	51.5	29.1	111	1	US-08-543-238-8	Sequence 8, Appli
16	51.5	29.1	111	1	US-08-420-526-8	Sequence 8, Appli
17	51	28.8	36	1	US-08-682-485A-1	Sequence 1, Appli
18	51	28.8	36	2	US-08-93-314-1	Sequence 1, Appli
19	49.5	28.0	489	4	US-09-252-991A-22896	Sequence 22896, Appli
20	49.5	28.0	36	3	US-08-505-486-86	Sequence 86, Appli
21	49.5	28.0	36	3	US-08-801-028-86	Sequence 86, Appli
22	49.5	28.0	36	3	US-09-340-154-86	Sequence 86, Appli
23	49.5	28.0	36	4	US-09-482-611B-86	Sequence 86, Appli
24	49.5	28.0	36	5	PCT-US95-09318-86	Sequence 86, Appli
25	49.5	28.0	36	5	PCT-US95-09319-86	Sequence 86, Appli
26	49.5	28.0	165	4	US-09-310-838-57	Sequence 57, Appli
27	49.5	28.0	374	4	US-09-341-878-52	Sequence 52, Appli

ALIGNMENTS

RESULT 1
US-08-682-485A-4

Patent No. 5733568

GENERAL INFORMATION:

APPLICANT: ATKINSON, RONALD K.
ADDRESS: 10200 South 47th Street
CITY: Richmond
STATE: California
COUNTRY: USA
ZIP: 94604

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/682,485A
FILING DATE: 27-JULY-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/682,485
FILING DATE: 17-JULY-1996
APPLICATION NUMBER: US/08/256,933
FILING DATE: 29-JAN-1993
APPLICATION NUMBER: AU PL0722
FILING DATE: 31-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Shaw, Melissa A.
REGISTRATION NUMBER: 38,301
REFERENCE/DOCKET NUMBER: PPD 5099/D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-231-1112
TELEFAX: 510-231-1112
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE: Atrax robustus
 ORGANISM: Atrax robustus
 FEATURE: Modified-site
 NAME/KEY: Modified-site
 LOCATION: 37
 OTHER INFORMATION: /label= a
 /note= "this site may be amidated without loss of biological activity"
 OTHER INFORMATION: /note= "this site may be amidated without loss of biological activity"
 US-08-682-485A-4

Query Match Score 70; DB 1; Length 37;
 Best Local Similarity 52.2%; Pred. No. 0.079;
 Matches 12; Conservative 3; Mismatches 6; Indels 2; Gaps 1;

QY 4 CIPSGDLCFRSDHGCCGKCAF 26
 4 CIPSGQPCPYNEH-CCSSCTY 24

DB 4 CIPSGQPCPYNEH-CCSSCTY 24

RESULT 2
 US-08-933-314-4
 Sequence 4 Application US/08933314
 Patent No. 5959182

GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K.
 APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET I.
 APPLICANT: VONARY, EDWARD J.

TITLE OF INVENTION: Insecticidal Toxins Derived From NUMBER OF SEQUENCES: 26
 TITLE OF SEQUENCE: Funnel Web (Atrax or Hadronyche Spiders)

CORRESPONDENCE ADDRESS:
 ADDRESSSEE: Zeneeca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314
 FILING DATE:
 CLASSIFICATION: 424
 PRIORITY APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: US/08/255,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU P07022
 FILING DATE: 31-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 TELECOMMUNICATION INFORMATION:
 REFERENCE/DOCKET NUMBER: PPD 5099/D1
 TELEPHONE: 510-231-1542
 TELEFAX: 510-231-1112
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

ORIGINAL SOURCE:
 ORGANISM: Atrax robustus
 FEATURE: Modified-site
 LOCATION: 37
 OTHER INFORMATION: /label= a
 /note= "this site may be amidated without loss of biological activity"
 OTHER INFORMATION: /note= "this site may be amidated without loss of biological activity"
 US-08-933-314-4

Query Match Score 70; DB 2; Length 37;
 Best Local Similarity 52.2%; Pred. No. 0.079;
 Matches 12; Conservative 3; Mismatches 6; Indels 2; Gaps 1;

QY 4 CIPSGDLCFRSDHGCCGKCAF 26
 DB 4 CIPSGQPCPYNEH-CCSSCTY 24

RESULT 3
 US-07-689-693B-5
 Sequence 5 Application US/07689693B
 Patent No. 5231011

GENERAL INFORMATION:
 APPLICANT: David Hillyard
 APPLICANT: Baldomero M. Olivera
 TITLE OF INVENTION: Segregated Folding Determinants for Small Disulfide-Rich Peptides
 NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Thorpe, No. 5231011rh & Western
 STREET: 9035 South 700 East, Suite 200
 CITY: Sandy
 STATE: Utah
 COUNTRY: USA
 ZIP: 84070

COMPUTER READABLE FORM:
 MEDIUM TYPE: Disquette, 3.5 inch, 720 Kb storage
 COMPUTER: Compaq LTE/286
 OPERATING SYSTEM: DOS 4.01
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/689,693B
 FILING DATE: 1991-04-18
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: none
 FILING DATE: na
 ATTORNEY/AGENT INFORMATION:
 NAME: Western, M. Wayne
 REGISTRATION NUMBER: 22,788
 REFERENCE/DOCKET NUMBER: 9925
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (801) 566-6633
 TELEFAX: (801) 566-0750
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 78 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: Linear
 MOLECULE TYPE: peptide
 FEATURE:
 NAME/KEY: Preproptide sequence for four loop
 NAME/KEY:
 IDENTIFICATION METHOD: Library was constructed using polyA selected mRNA transcripts purified from Ciona textile venom duct tissue and cloned
 IDENTIFICATION METHOD:
 IDENTIFICATION METHOD: into the Okyama-Berg oligo-dT primed plasmid
 IDENTIFICATION METHOD: psV7186
 US-07-689-693B-5

Query Match Score 66; DB 1; Length 78;
 Best Local Similarity 46.4%; Pred. No. 0.43;

Matches 13; Conservative 2; Mismatches 11; Indels 2; Gaps 2;

Correspondence Address:

ADDRESSEE: ZENBECA Inc.
STREET: 1800 Concord Pike
CITY: Wilmington
STATE: DE
COUNTRY: USA
ZIP: 19850

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/716,308
FILING DATE: 24-SEP-1996
CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/GB95/00677
FILING DATE: 27-MAR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: GB 9405951.6
FILING DATE: 25-MAR-1994

ATTORNEY/AGENT INFORMATION:

NAME: Hohenschultz, Liza D.
REGISTRATION NUMBER: 33,712

REFERENCE/DOCKET NUMBER: PPD40027X/UST

TELECOMMUNICATION INFORMATION:

TELEPHONE: (302) 886-1699

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 78 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-08-716-308-2

Query Match 37.3%; Score 66; DB 2; Length 78;
Best Local Similarity 46.4%; Pred. No. 0.43; Matches 13; Conserv 2; Mismatches 11; Indels 2; Gaps 2;

RESULT 6

US-08-716-308-16

Sequence 16, Application US/08716308
; Patent No. 5885569

GENERAL INFORMATION:

APPLICANT: Windass, John D.
TITLE OF INVENTION: Biological Insect Control Agent
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:

ADDRESSEE: ZENBECA Inc.
STREET: 1800 Concord Pike
CITY: Wilmington
STATE: DE
COUNTRY: USA
ZIP: 19850

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/716,308
FILING DATE: 24-SEP-1996
CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/GB95/00677
FILING DATE: 27-MAR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: GB 9405951.6
FILING DATE: 25-MAR-1994

ATTORNEY/AGENT INFORMATION:

NAME: Hohenschultz, Liza D.
REGISTRATION NUMBER: 33,712

REFERENCE/DOCKET NUMBER: PPD40027X/UST

TELECOMMUNICATION INFORMATION:

TELEPHONE: (302) 886-1699

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 78 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-08-716-308-2

Query Match 37.3%; Score 66; DB 1; Length 78;
Best Local Similarity 46.4%; Pred. No. 0.43; Matches 13; Conserv 2; Mismatches 11; Indels 2; Gaps 2;

RESULT 5

US-08-716-308-2

Sequence 2, Application US/08716308
; Patent No. 5885569

GENERAL INFORMATION:

APPLICANT: Windass, John D.
TITLE OF INVENTION: Biological Insect Control Agent
NUMBER OF SEQUENCES: 18

APPLICATION NUMBER: GB 9405951.6
 FILING DATE: 25-MAR-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Hohenhsutz, Liza D.
 REGISTRATION NUMBER: 33,712
 REFERENCE/DOCKET NUMBER: PPD40027X/UST
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (302) 886-1699
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 78 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-716-308-16

Query Match 37.3%; Score 66; DB 5; Length 78;
 Best Local Similarity 46.4%; Pred. No. 0.43; 2;
 Matches 13; Conservative 2; Mismatches 11; Indels 2; Gaps 2;

Qy 2 RWCIPSGDLCFRSDHIGCCSKKC-AFVC 28
 Db 51 RWCKQSGEMCNLLDQ-NCCDGYCTVLYC 77

RESULT 8
 US-07-689-693B-6
 Sequence 6, Application US/07689693B
 Patent No. 5231011
 GENERAL INFORMATION:
 APPLICANT: David Hillyard
 COMPUTER: Baldomero M. Olivera
 TITLE OF INVENTION: Segregated Folding Determinants
 for Small Disulfide-Rich Peptides
 NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Thorpe, No. 5231011th & Western
 STREET: 9035 South 700 East, Suite 200
 CITY: Sandy
 STATE: Utah
 COUNTRY: USA
 ZIP: 84070

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage
 COMPUTER: Compaq LTE/286
 OPERATING SYSTEM: DOS 4.01
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/689,693B
 FILING DATE: 19910418
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: none
 FILING DATE: na
 ATTORNEY/AGENT INFORMATION:
 NAME: Western, M. Wayne
 REGISTRATION NUMBER: 22,788
 REFERENCE/DOCKET NUMBER: 9925
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (801) 566-6633
 TELEFAX: (801) 566-0750
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 27 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: Peptide
 FEATURE:
 NAME/KEY: King Kong (kk0) conotoxin
 IDENTIFICATION METHOD: Direct Peptide sequencing
 US-07-689-693B-6

Query Match 34.5%; Score 61; DB 1; Length 27;
 Best Local Similarity 44.4%; Pred. No. 0.66; 2;
 Matches 12; Conservative 2; Mismatches 11; Indels 2; Gaps 2;

Qy 3 RCIPIGDLCFRSDDHIGCCSKKC-AFVC 28
 Db 1 RWCKQSGEMCNLLDQ-NCCDGYCTVLYC 26

RESULT 9
 US-08-682-485A-5
 Sequence 5, Application US/08682485A
 Patent No. 5735568
 GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K

ATTORNEY/AGENT INFORMATION:
 NAME: Saxe, Stephen A.
 REGISTRATION NUMBER: 38,609
 REFERENCE/DOCKET NUMBER: 24260-107674
 TELEPHONE: 202-962-1848
 TELEFAX: 202-952-8300
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 78 amino acids
 TYPE: amino acid
 STRANDNESS: single
 TOPOLOGY: linear
 HYPOTHETICAL: protein
 HYPOTHETICAL: NO
 PCT-US96-05232-14

APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET I.
 TITLE OF INVENTION: EDWARD J VONARX, INSECTICIDAL Toxins Derived From Funnel Web (Atrax or Hadronyche Spiders)

NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485A
 FILING DATE:
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PL0722
 FILING DATE: 31-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 REFERENCE/DOCKET NUMBER: PPD 5099/D1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 510-231-1542
 TELEFAX: 510-231-1112
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hadronyche versutus
 NAME/KEY: Modified site
 LOCATION: 37
 OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss of biological activity"
 OTHER INFORMATION: US-08-682-485A-5

Query Match 32.8%; Score 58; DB 2; Length 37;
 Best Local Similarity 47.8%; Pred. No. 1.9;
 Matches 11; Conservative 3; Mismatches 7; Indels 2; Gaps 1;

Qy 4 CIPSGDLCFRSDHIGCCSGKCAF 26
 Db 4 CIPSGQCPYNEN--CCSQSCTF 24

RESULT 10
 US-08-933-314-5
 Sequence 5, Application US/0893314
 Patent No. 595182
 GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K.
 APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET I.

APPLICANT: VONARX, EDWARD J
 TITLE OF INVENTION: Insecticidal Toxins Derived From Funnel Web (Atrax or Hadronyche Spiders)
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314
 FILING DATE:
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PL0722
 FILING DATE: 31-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 REFERENCE/DOCKET NUMBER: PPD 5099/D1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 510-231-1542
 TELEFAX: 510-231-1112
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hadronyche versutus
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: 37
 OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss of biological activity"
 OTHER INFORMATION: US-08-933-314-5

Query Match 32.8%; Score 58; DB 2; Length 37;
 Best Local Similarity 47.8%; Pred. No. 1.9;
 Matches 11; Conservative 3; Mismatches 7; Indels 2; Gaps 1;

Qy 4 CIPSGDLCFRSDHIGCCSGKCAF 26
 Db 4 CIPSGQCPYNEN--CCSQSCTF 24

RESULT 11
 US-09-136-769A-5
 Sequence 5, Application US/09136769A
 Patent No. 6307014
 GENERAL INFORMATION:
 APPLICANT: Furie, Bruce
 APPLICANT: Furie, Barbara
 APPLICANT: Stenlio, Johan
 APPLICANT: Rigby, Alan C.
 APPLICANT: Roepstoff, Peter

TITLE OF INVENTION: CONOPEPPTIDES
FILE REFERENCE: 50065/002001
CURRENT APPLICATION NUMBER: US/09/136,769A
CURRENT FILING DATE: 1998-08-19
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 29
TYPE: PRT
ORGANISM: Conus textile
FEATURE:
NAME/KEY: VARIANT
LOCATION: (4) .. (4)
OTHER INFORMATION: Xaa is gamma-carboxyglutamic acid
US-09-136-769A-5

Query Match 31.4%; Score 55.5; DB 4; Length 29;
Best Local Similarity 41.4%; Pred. No. 3;
Matches 12; Conservative 0; Mismatches 14; Indels 3; Gaps 1;

QY 4 CIPSGDLCFRSD--HIGCCSGKCAFVCL 29
Db 1 CTIPGSSSSGSGCCHKSCCRWTNCNPCL 29

RESULT 12
US-09-136-769A-16
Sequence 16, Application US/09136769A
Patent No. 6307014
GENERAL INFORMATION:
APPLICANT: Furie, Bruce
APPLICANT: Stanlio, Johan
APPLICANT: Rieby, Alan C.
APPLICANT: Reepstof, Peter
TITLE OF INVENTION: CONOPEPPTIDES
FILE REFERENCE: 50065/002001
CURRENT APPLICATION NUMBER: US/09/136,769A
CURRENT FILING DATE: 1998-08-19
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 16
LENGTH: 29
TYPE: PRT
ORGANISM: Conus textile
FEATURE:
NAME/KEY: VARIANT
LOCATION: (4) .. (4)
OTHER INFORMATION: Xaa is gamma-carboxyglutamic acid.
US-09-136-769A-16

Query Match 31.4%; Score 55.5; DB 4; Length 29;
Best Local Similarity 41.4%; Pred. No. 3;
Matches 12; Conservative 0; Mismatches 14; Indels 3; Gaps 1;

QY 4 CIPSGDLCFRSD--HIGCCSGKCAFVCL 29
Db 1 CTIPGSSSSGSGCCHKSCCRWTNCNPCL 29

RESULT 13
US-08-682-485A-2
Sequence 2, Application US/08662485A
Patent No. 5761568
GENERAL INFORMATION:
APPLICANT: ATKINSON, RONALD K.
APPLICANT: HOWDEN, MERLIN E.H.
APPLICANT: TYLER, MARGARET I.
APPLICANT: VONARX, EDWARD J.
TITLE OF INVENTION: Insecticidal Toxins Derived From Funnel Web (Atrax or Hadronyche Spiders)
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zeneca, Inc.
STREET: 1200 South 47th Street

RESULT 14
US-08-933-314-2
Sequence 2, Application US/08933314
Patent No. 559182
GENERAL INFORMATION:
APPLICANT: ATKINSON, RONALD K.
APPLICANT: HOWDEN, MERLIN E.H.
APPLICANT: TYLER, MARGARET I.
APPLICANT: VONARX, EDWARD J.
TITLE OF INVENTION: Insecticidal Toxins Derived From Funnel Web (Atrax or Hadronyche Spiders)
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zeneca, Inc.
STREET: 1200 South 47th Street

CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314
 FILING DATE:
 CLASSIFICATION: 424

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PL0722
 FILING DATE: 31-JAN-1992

ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 REFERENCE DOCKET NUMBER: PPD 5099/D1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 510-231-1542
 TELEXFAX: 510-231-1112
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Atta tex infensus
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: 37

OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "This amino acid may be amidated without
 loss of biological activity"
 US-08-933-314-2

Query Match 29.4%; Score 52; DB 2; Length 37;
 Best Local Similarity 39.1%; Pred. No. 9.3;
 Matches 9; Conservative 5; Mismatches 7; Indels 2; Gaps 1;

Qy 4 CIPSGDLCFRSDHIGCCGKCAF 26
 Db 4 CIPGQPYPNEN-CCSQSCTY 24

RESULT 15

US-08-933-238-8
 Sequence 8, Application US/08543238
 Patent No. 5607919
 GENERAL INFORMATION:
 APPLICANT: Boisen, Kirsten
 APPLICANT: Krash, Karsten M.
 APPLICANT: Mikkelson, Jorn D.
 APPLICANT: Nielsen, Klaus K.
 TITLE OF INVENTION: Anti-Microbial Proteins
 NUMBER OF SEQUENCES: 13
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sandoz Agro, Inc.
 STREET: 975 California Avenue
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA

ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/543,238
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Marcus Wyner, Lynn
 REGISTRATION NUMBER: 34,869
 REFERENCE DOCKET NUMBER: 137-1078/MA
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/354-3588
 TELEXFAX: 415/857-1125
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 111 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-543-238-8

Query Match 29.1%; Score 51.5; DB 1; Length 111;
 Best Local Similarity 48.1%; Pred. No. 27;
 Matches 13; Conservative 2; Mismatches 9; Indels 3; Gaps 2;

Qy 1 LRMCIPISSDLCFRSDHIGCCG-KCAF 26
 Db 78 LKRCIIPCQDCISSRN--CCSPCKCNF 102

Search completed: November 17, 2003, 17:11:57
 Job time : 15.0179 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 17, 2003, 17:11:18 ; Search time 24.8571 Seconds

(without alignments)
 212.986 Million cell updates/secTitle: US-09-749-637A-270
 Perfect score: 177

Sequence: 1 LRWCIPSGDLCFRSDHGCCSGKCAFVCL 29

Scoring table: BLOSUM62

Gapext 0.5

Searched: 666188 seqs, 182559486 residues

Total number of hits satisfying chosen parameters:

666188

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summariesDatabase : Published Applications AA:^{*}

- 1: /cgcn2_6/_ptodata/2/pupbaa/_US07_PUBCOMB.pep:*
- 2: /cgcn2_6/_ptodata/2/pupbaa/_US07_PUBCOMB.pep:*
- 3: /cgcn2_6/_ptodata/2/pupbaa/_US06_PUBCOMB.pep:*
- 4: /cgcn2_6/_ptodata/2/pupbaa/_US07_NEW_PUB.pep:*
- 5: /cgcn2_6/_ptodata/2/pupbaa/_PCRSUS_PUBCOMB.pep:*
- 6: /cgcn2_6/_ptodata/2/pupbaa/_US08_PUBCOMB.pep:*
- 7: /cgcn2_6/_ptodata/2/pupbaa/_US09_NEW_PUB.pep:*
- 8: /cgcn2_6/_ptodata/2/pupbaa/_US08_PUBCOMB.pep:*
- 9: /cgcn2_6/_ptodata/2/pupbaa/_US09_PUBCOMB.pep:*
- 10: /cgcn2_6/_ptodata/2/pupbaa/_US07_NEW_PUB.pep:*
- 11: /cgcn2_6/_ptodata/2/pupbaa/_US09_PUBCOMB.pep:*
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- 13: /cgcn2_6/_ptodata/2/pupbaa/_US10_PUBCOMB.pep:*
- 14: /cgcn2_6/_ptodata/2/pupbaa/_US10_NEW_PUB.pep:*
- 15: /cgcn2_6/_ptodata/2/pupbaa/_US10C_PUBCOMB.pep:*
- 16: /cgcn2_6/_ptodata/2/pupbaa/_US10C_NEW_PUB.pep:*
- 17: /cgcn2_6/_ptodata/2/pupbaa/_US60_NEW_PUB.pep:*
- 18: /cgcn2_6/_ptodata/2/pupbaa/_US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	177	100.0	29	10 US-09-749-637A-270	Sequence 270, App
2	173	97.7	29	10 US-09-749-637A-270	Sequence 270, App
3	169	95.5	29	10 US-09-749-637A-273	Sequence 273, App
4	159	89.8	82	10 US-09-749-637A-393	Sequence 393, App
5	150	84.7	31	10 US-09-749-637A-369	Sequence 369, App
6	150	84.7	31	10 US-09-749-637A-378	Sequence 378, App
7	148	83.6	27	10 US-09-749-637A-271	Sequence 271, App
8	148	83.6	29	10 US-09-749-637A-268	Sequence 268, App
9	147	83.1	31	10 US-09-749-637A-384	Sequence 384, App
10	147	83.1	31	10 US-09-749-637A-387	Sequence 387, App
11	143	80.8	29	10 US-09-749-637A-345	Sequence 345, App
12	140	79.1	27	10 US-09-749-637A-274	Sequence 274, App
13	136	76.8	31	10 US-09-749-637A-372	Sequence 372, App
14	135	76.3	29	10 US-09-749-637A-348	Sequence 348, App
15	133	75.1	31	10 US-09-749-637A-366	Sequence 366, App

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

FILE REFERENCE: 2314-227

CURRENT APPLICATION NUMBER: US/09-749-637A

CURRENT FILING DATE: 2000-12-28

PRIORITY NUMBER: US 60/243,412

PRIORITY FILING DATE: 2000-10-27

PRIORITY NUMBER: US60/219,440

PRIORITY FILING DATE: 2000-07-20

PRIORITY NUMBER: US 60/214,263

PRIORITY FILING DATE: 2000-06-26

PRIORITY NUMBER: US 60/173,754

PRIORITY FILING DATE: 1999-12-30

NUMBER OF SEQ ID NOS: 409

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 270

LENGTH: 29

TYPE: PRT

ORGANISM: Conus striatus

US-09-749-637A-270

Query Match 100.0%; Score 177; DB 10;

Best Local Similarity 100.0%; Pred. No. 5.4e-15;

Matches 29; Conservative 0; Mismatches 0;

Indels 0; Gaps 0;

ALIGNMENTS

RESULT¹
 US-09-749-637A-270
 Sequence 270, Application US/09749637A
 ; Patent No. US20020173449A1.

GENERAL INFORMATION:

APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
 ; Cognetix, Inc.
 ; Patent No. US20020173449A1.
 ; OLIVERA, Baldomero M.
 ; CARRIER, G. Edward
 ; WATKINS, Maxen
 ; HILLIARD, David R.
 ; MCINTOSH, J. Michael
 ; LAYER, Richard T.
 ; JONES, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

FILE REFERENCE: 2314-227

CURRENT APPLICATION NUMBER: US/09-749-637A

CURRENT FILING DATE: 2000-12-28

PRIORITY NUMBER: US 60/243,412

PRIORITY FILING DATE: 2000-10-27

PRIORITY NUMBER: US60/219,440

PRIORITY FILING DATE: 2000-07-20

PRIORITY NUMBER: US 60/214,263

PRIORITY FILING DATE: 2000-06-26

PRIORITY NUMBER: US 60/173,754

PRIORITY FILING DATE: 1999-12-30

NUMBER OF SEQ ID NOS: 409

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 270

LENGTH: 29

TYPE: PRT

ORGANISM: Conus striatus

US-09-749-637A-270

Query Match 100.0%; Score 177; DB 10;

Best Local Similarity 100.0%; Pred. No. 5.4e-15;

Matches 29; Conservative 0; Mismatches 0;

Indels 0; Gaps 0;

Qy 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29
 Db 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29

RESULT 2
 US-09-749-637a-267 Application US/09749637A
 ; Sequence 267, Application US/09749637A
 ; Patent No. US2002017349A1
 ; GENERAL INFORMATION:
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Carter, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Layer, Richard T.
 ; APPLICANT: Jones, Robert M.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; CURRENT FILING DATE: 2000-12-28
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US60/219,440
 ; PRIOR FILING DATE: 2000-07-20
 ; PRIOR APPLICATION NUMBER: US 60/214,263
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/173,754
 ; PRIOR FILING DATE: 1999-12-30
 ; NUMBER OF SEQ ID NOS: 409
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 267
 ; LENGTH: 29
 ; TYPE: PRT
 ; ORGANISM: *Conus striatus*
 US-09-749-637a-267

Query Match 97.7%; Score 173; DB 10; Length 29;
 Best Local Similarity 96.6%; Pred. No. 1.7e-14;
 Matches 28; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29
 Db 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29

RESULT 3
 US-09-749-637a-273 Application US/09749637A
 ; Sequence 273, Application US/09749637A
 ; Patent No. US2002017349A1
 ; GENERAL INFORMATION:
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Carter, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Layer, Richard T.
 ; APPLICANT: Jones, Robert M.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; CURRENT FILING DATE: 2000-12-28
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US60/219,440
 ; PRIOR FILING DATE: 2000-07-20
 ; PRIOR APPLICATION NUMBER: US 60/214,263
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/173,754
 ; PRIOR FILING DATE: 1999-12-30
 ; NUMBER OF SEQ ID NOS: 409
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 393
 ; LENGTH: 82
 ; TYPE: PRT
 ; ORGANISM: *Conus stercusmuscaram*
 US-09-749-637a-393

Qy 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29
 Db 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29

RESULT 4
 US-09-749-637a-393 Application US/09749637A
 ; Sequence 393, Application US/09749637A
 ; Patent No. US2002017349A1
 ; GENERAL INFORMATION:
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Carter, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Layer, Richard T.
 ; APPLICANT: Jones, Robert M.
 ; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 ; FILE REFERENCE: 2314-227
 ; CURRENT APPLICATION NUMBER: US/09/749,637A
 ; CURRENT FILING DATE: 2000-12-28
 ; PRIOR APPLICATION NUMBER: US 60/243,412
 ; PRIOR FILING DATE: 2000-10-27
 ; PRIOR APPLICATION NUMBER: US60/219,440
 ; PRIOR FILING DATE: 2000-07-20
 ; PRIOR APPLICATION NUMBER: US 60/214,263
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: US 60/173,754
 ; PRIOR FILING DATE: 1999-12-30
 ; NUMBER OF SEQ ID NOS: 409
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 393
 ; LENGTH: 82
 ; TYPE: PRT
 ; ORGANISM: *Conotoxin Peptides*
 US-09-749-637a-393

Query Match 95.5%; Score 169; DB 10; Length 29;
 Best Local Similarity 96.6%; Pred. No. 5.1e-14;
 Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29
 Db 1 LRCIPSGDLCFRSDHIGCCSGKCAFVCL 29

RESULT 5
 US-09-749-637a-369 Application US/09749637A
 ; Sequence 369, Application US/09749637A
 ; Patent No. US2002017349A1
 ; GENERAL INFORMATION:
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.
 ; APPLICANT: Olivera, Baldomero M.
 ; APPLICANT: Carter, G. Edward
 ; APPLICANT: Watkins, Maren
 ; APPLICANT: Hilliard, David R.
 ; APPLICANT: McIntosh, J. Michael
 ; APPLICANT: Layer, Richard T.

APPLICANT: Layer, Richard T.
 APPLICANT: Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

FILE REFERENCE: 2314-227

CURRENT APPLICATION NUMBER: US/09/749,637A

PRIOR APPLICATION NUMBER: US 60/243,412

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US/09/219,440

PRIOR FILING DATE: 2000-07-30

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

NUMBER OF SEQ ID NOS: 409

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 369

LENGTH: 31

TYPE: PRT

ORGANISM: Conus circumcisus

US-09-749-637A-369

Query Match 84.7% Score 150; DB 10; Length 31;

Best Local Similarity 86.2%; Pred. No. 1.2e-11; Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LRWCIPSGDLCFRSDDHTIGCCSGKCAFVCL 29

Db 3 LSWCIPSGDLCFPSDHDICRCCSAKCAFVCL 31

RESULT 6

US-09-749-637A-378

Sequence 378 Application US/09/49637A

PATENT NO: US20020173449A1

GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.

APPLICANT: Carrier, G. Edward

APPLICANT: Watkins, Maren

APPLICANT: Hillyard, David R.

APPLICANT: McIntosh, J. Michael

APPLICANT: Layer, Richard T.

APPLICANT: Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

FILE REFERENCE: 2314-227

CURRENT APPLICATION NUMBER: US/09/749,637A

PRIOR APPLICATION NUMBER: US 60/243,412

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US/09/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

NUMBER OF SEQ ID NOS: 409

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 378

LENGTH: 31

TYPE: PRT

ORGANISM: Conus circumcisus

US-09-749-637A-378

Query Match 84.7% Score 150; DB 10; Length 31;

Best Local Similarity 86.2%; Pred. No. 1.2e-11; Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LRWCIPSGDLCFRSDDHTIGCCSGKCAFVCL 29

Db 3 LSWCIPSGDLCFPSDHDICRCCSAKCAFVCL 31

RESULT 7

US-09-749-637A-271

Sequence 271 Application US/09/49637A

PATENT NO: US20020173449A1

GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.

APPLICANT: Carrier, G. Edward

APPLICANT: Watkins, Maren

APPLICANT: Hillyard, David R.

APPLICANT: McIntosh, J. Michael

APPLICANT: Layer, Richard T.

APPLICANT: Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

FILE REFERENCE: 2314-227

CURRENT APPLICATION NUMBER: US/09/749,637A

PRIOR APPLICATION NUMBER: US 60/243,412

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US/09/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

NUMBER OF SEQ ID NOS: 409

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 31

LENGTH: 31

TYPE: PRT

ORGANISM: Conus circumcisus

US-09-749-637A-271

Query Match 84.7% Score 150; DB 10; Length 31;

Best Local Similarity 86.2%; Pred. No. 1.2e-11; Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LRWCIPSGDLCFRSDDHTIGCCSGKCAFVCL 29

Db 3 LSWCIPSGDLCFPSDHDICRCCSAKCAFVCL 31

RESULT 8

US-09-749-637A-268

Sequence 268 Application US/09/49637A

PATENT NO: US2002017349A1

GENERAL INFORMATION:

APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.

APPLICANT: Carrier, G. Edward

APPLICANT: Watkins, Maren

APPLICANT: Hillyard, David R.

APPLICANT: McIntosh, J. Michael

APPLICANT: Layer, Richard T.

APPLICANT: Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

FILE REFERENCE: 2314-227

CURRENT APPLICATION NUMBER: US/09/749,637A

PRIOR APPLICATION NUMBER: US 60/243,412

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US/09/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

NUMBER OF SEQ ID NOS: 409

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 271

LENGTH: 27

TYPE: PRT

ORGANISM: Comus striatus

US-09-749-637A-271

Query Match 83.6% Score 148; DB 10; Length 27;

Best Local Similarity 96.2%; Pred. No. 1.8e-11; Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

US-09-749-637A-271

Query Match 83.6% Score 148; DB 10; Length 27;

Best Local Similarity 96.2%; Pred. No. 1.8e-11; Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

US-09-749-637A-271

PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 268
 LENGTH: 29
 TYPE: PRT
 ORGANISM: *Conus striatus*
 FEATURE:
 NAME/KEY: SITE
 LOCATION: (1)..(29)
 OTHER INFORMATION: xaa at residue 3 may be Trp or bromo-Trp; xaa at residue 6 may be Glu or gamma-carboxy-
 OTHER INFORMATION: pro or hydroxy-pro; xaa at residue 9 may be Glu or gamma-carboxy-
 OTHER INFORMATION: -Glu
 US-09-749-637A-268

Query Match 83.6%; Score 148; DB 10; Length 29;
 Best Local Similarity 89.9%; Pred. No. 1.9e-11;
 Matches 26; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 LRCWCIPGDLCFERSDHIGCCSGKCAFVCL 29
 Db 1 LRXCIXSGXLCFRSRSDHIGCCSGKCAFVCL 29

RESULT 9
 US-09-749-637A-384
 Sequence 384, Application US/09749637A
 Patent No. US2002017349A1
 GENERAL INFORMATION:
 APPLICANT: University of Utah Research Foundation
 APPLICANT: Cognetix, Inc.
 APPLICANT: Olivera, Baldomero M.
 APPLICANT: Carrier, G. Edward
 APPLICANT: Watkins, Maren
 APPLICANT: Hillyard, David R.
 APPLICANT: McIntosh, J. Michael
 APPLICANT: Layer, Richard T.
 APPLICANT: Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

FILE REFERENCE: 2314-227
 CURRENT APPLICATION NUMBER: US/09/749,637A
 CURRENT FILING DATE: 2000-12-28
 PRIOR APPLICATION NUMBER: US 60/243,412
 PRIOR FILING DATE: 2000-10-27
 PRIOR APPLICATION NUMBER: US 60/219,440
 PRIOR FILING DATE: 2000-07-20
 PRIOR APPLICATION NUMBER: US 60/214,263
 PRIOR FILING DATE: 2000-06-26
 PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 384
 LENGTH: 31
 TYPE: PRT
 ORGANISM: *Conus circumcisus*

US-09-749-637A-384
 Query Match 83.1%; Score 147; DB 10; Length 31;
 Best Local Similarity 82.8%; Pred. No. 2.7e-11;
 Matches 24; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
 Qy 1 LRCWCIPGDLCFERSDHIGCCSGKCAFVCL 29
 Db 3 LSWCIPGDLCFSPSDHIIQCCNAKCAFVCL 31

RESULT 10
 US-09-749-637A-387
 Sequence 387, Application US/09749637A
 Patent No. US2002017349A1
 GENERAL INFORMATION:

Query Match 80.8%; Score 143; DB 10; Length 29;

US-09-749-637A-345

Query Match

Best Local Similarity 79.3%; Pred. No. 7.8e-11; Mismatches 5; Indels 0; Gaps 0;

Matches 23; Conservative 1; Other INFORMATION: Xaa at residue 4 may be Pro or Hydroxy-Pro

RESULT 12
US-09-749-637A-274

; Sequence 274, Application US/09749637A
; Patent No. US20020173449A1

; APPLICANT: University of Utah Research Foundation
; Cognexix, Inc.
; APPLICANT: Olivera, Baldomero M.

Cartier, G. Edward
Watkins, Maren
Hillyard, David R.

McIntosh, J. Michael
Layer, Richard T.
TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US 60/243,412

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US 60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 274

LENGTH: 27

TYPE: PRT

ORGANISM: Conus striatus

FEATURE: SITE

NAME/KEY: SITE

LOCATION: (11)-(27)

OTHER INFORMATION: Xaa at residue 4 may be Trp or bromo-Trp; Xaa at residue 4 may be

Pro or Hydroxy-Pro

RESULT 13
US-09-749-637A-372

; Sequence 372, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

Cartier, G. Edward

Watkins, Maren

Hillyard, David R.

McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

Cartier, G. Edward

Watkins, Maren

Hillyard, David R.

McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

Cartier, G. Edward

Watkins, Maren

Hillyard, David R.

McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

Cartier, G. Edward

Watkins, Maren

Hillyard, David R.

McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

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Watkins, Maren

Hillyard, David R.

McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

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McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/214,263

PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

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; APPLICANT: Olivera, Baldomero M.

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McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A

CURRENT FILING DATE: 2000-12-28

PRIOR APPLICATION NUMBER: US60/219,440

PRIOR FILING DATE: 2000-07-20

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PRIOR FILING DATE: 2000-06-26

PRIOR APPLICATION NUMBER: US 60/173,754

PRIOR FILING DATE: 1999-12-30

OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

ORGANISM: Conus achatinus

US-09-749-637A-348

; Sequence 348, Application US/09749637A
; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; Cognexix, Inc.

; APPLICANT: Olivera, Baldomero M.

Cartier, G. Edward

Watkins, Maren

Hillyard, David R.

McIntosh, J. Michael

Layer, Richard T.

Jones, Robert M.

TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

CURRENT APPLICATION NUMBER: US/09/743,637A
CURRENT FILING DATE: 2000-12-28
PRIOR APPLICATION NUMBER: US60/219,440
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PRIOR FILING DATE: 2000-06-26
PRIOR APPLICATION NUMBER: US 60/173,754
PRIOR FILING DATE: 1999-12-30
OTHER INFORMATION: Pro or Hydroxy-Pro

SOFTWARE: PatentIn version 3.0

SEQ ID NO 348

LENGTH: 29

TYPE: PRT

GENERAL INFORMATION;

; APPLICANT: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olivera, Baldomero M.

; APPLICANT: Catier, G. Edward

; APPLICANT: Watkins, Maren

; APPLICANT: Hillyard, David R.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Layer, Richard T.

; APPLICANT: Jones, Robert M.

; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

; FILE REFERENCE: 314-227

; CURRENT APPLICATION NUMBER: US/09/749, 637A

; CURRENT FILING DATE: 2000-12-28

; PRIOR APPLICATION NUMBER: US 60/243,412

; PRIOR FILING DATE: 2000-10-27

; PRIOR APPLICATION NUMBER: US60/219,440

; PRIOR FILING DATE: 2000-07-20

; PRIOR APPLICATION NUMBER: US 60/214,263

; PRIOR FILING DATE: 2000-06-26

; PRIOR APPLICATION NUMBER: US 60/173,754

; PRIOR FILING DATE: 1999-12-30

; NUMBER OF SEQ ID NOS: 409

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO: 366

; LENGTH: 31

; TYPE: PRT

; ORGANISM: *Conus circumcisus*

US-09-749-637A-366

Query Match 75.1%; Score 133; DB 10; Length 31;

Best Local Similarity 84.6%; Pred. No. 1.4e-09;

Matches 22; Conservative 1; Mismatches 3;

Indels 0; Gaps 0;

Qy 4 CIPSGDLCPRSDHIGCCSGKCAFVCL 29

Db 6 CIPSGDLCPRSDHICQCCNAKCAFVCL 31

Search completed: November 17, 2003, 17:19:22

Job time : 25.8571 secs

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OM protein - protein search, using sw model

Run on: November 17, 2003, 17:11:18 ; Search time 23.1429 Seconds
(Without alignments)
212.986 Million cell updates/sec

Title: US-09-749-637a-271
Perfect score: 152
Sequence: 1 XCIKSGDJLCFRSDH1GCGSGKCAFVCL 27

Scoring table: BLOSUM62
GapOp 10.0 , Gapext 0.5

Searched: 666188 seqs, 182559486 residues
Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Total number of hits satisfying chosen parameters: 666188
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
 1: /cgns_6/podata/2/pubpaas/2/pubpaas/US07_PUBCOMB.pep:
 2: /cgns_6/podata/2/pubpaas/2/pubpaas/US07_PUBCOMB.pep:
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 14: /cgns_6/podata/2/pubpaas/2/pubpaas/US10_PUBCOMB.pep:
 15: /cgns_6/podata/2/pubpaas/2/pubpaas/US10C_PUBCOMB.pep:
 16: /cgns_6/podata/2/pubpaas/2/pubpaas/US10C_PUBCOMB.pep:
 17: /cgns_6/podata/2/pubpaas/2/pubpaas/US60_PUBCOMB.pep:
 18: /cgns_6/podata/2/pubpaas/2/pubpaas/US60_PUBCOMB.pep:
 RESULT 1
US-09-749-637a-271
; Sequence 271, Application US/0949637A
; Patent No. US2002017349A1.
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; INVENTOR: Cognex, Inc.
; ATTORNEY: Oliviera, Baldomero M.
; APPLICANT: Carter, G. Edward
; APPLICANT: Watkins, Marvin
; APPLICANT: Hilliard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Layter, Richard T.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Su-Berfamly Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09/749-637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-07-20
; PRIORITY CLAIMS:
; PRIORITY NUMBER: US 60/214,263
; PRIORITY FILING DATE: 2000-06-26
; PRIORITY NUMBER: US 60/173,754
; PRIORITY FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO: 271
; LENGTH: 27
; SOFTWARE: PatentIn version 3.0
; TYPE: PRT
; ORGANISM: Conus striatus
; FEATURE: SITE
; NAME/KEY: (1) (27)
; LOCATION: (1) (27)
; OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; Xaa at residue 4 may be Pro or hydroxy-Pro

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
1	149	98.0	27	10	US-09-749-637A-271	Sequence 271, App
2	148	97.4	29	10	US-09-749-637A-270	Sequence 270, App
3	144	94.7	29	10	US-09-749-637A-267	Sequence 267, App
4	142	93.4	29	10	US-09-749-637A-268	Sequence 268, App
5	141	92.8	27	10	US-09-749-637A-274	Sequence 274, App
6	140	92.1	29	10	US-09-749-637A-273	Sequence 273, App
7	130	85.5	82	10	US-09-749-637A-393	Sequence 393, App
8	129	84.9	26	10	US-09-749-637A-373	Sequence 373, App
9	129	84.9	27	10	US-09-749-637A-370	Sequence 370, App
10	129	84.9	27	10	US-09-749-637A-379	Sequence 379, App
11	127	83.6	31	10	US-09-749-637A-369	Sequence 369, App
12	127	83.6	31	10	US-09-749-637A-372	Sequence 372, App
13	127	83.6	31	10	US-09-749-637A-378	Sequence 378, App
14	126	82.9	26	10	US-09-749-637A-367	Sequence 367, App
15	126	82.9	27	10	US-09-749-637A-385	Sequence 385, App

Query Match 98.0%; Score 149; DB 10; Length 27;
 Best Local Similarity 100.0%; Pred. No. 1.e-11; 0; Gaps 0;
 Matches 26; Conservative 0; Mismatches 0; Indels 0;

Qy 2 CIXSGDLCPRSDFHGCCGSKCAFVCL 27
 Db 2 CIXSGDLCPRSDFHGCCGSKCAFVCL 27

RESULT 2

US-09-749-637a-270

; Sequence 270, Application US/09749637A

; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olivera, Baldomero M.

; APPLICANT: Carrier, G. Edward

; APPLICANT: Watkins, Maren

; APPLICANT: Hillyard, David R.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Layer, Richard T.

; APPLICANT: Jones, Robert M.

; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

; FILE REFERENCE: 2314-227

; CURRENT APPLICATION NUMBER: US/09/749, 637A

; CURRENT FILING DATE: 2000-12-28

; PRIOR APPLICATION NUMBER: US 60/243, 412

; PRIOR FILING DATE: 2000-10-27

; PRIOR APPLICATION NUMBER: US60/219, 440

; PRIOR FILING DATE: 2000-07-20

; PRIOR APPLICATION NUMBER: US 60/214, 263

; PRIOR FILING DATE: 2000-06-26

; PRIOR APPLICATION NUMBER: US 60/173, 754

; PRIOR FILING DATE: 1999-12-30

; NUMBER OF SEQ ID NOS: 409

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO: 270

; LENGTH: 29

; TYPE: PRT

; ORGANISM: *Conus striatus*

; US-09-749-637a-270

Query Match 97.4%; Score 148; DB 10; Length 29;

Best Local Similarity 96.2%; Pred. No. 1.e-11; 0; Gaps 0;

Matches 25; Conservative 0; Mismatches 1; Indels 0;

Qy 2 CIXSGDLCPRSDFHGCCGSKCAFVCL 27
 Db 4 CIPSGDLCPRSDFHGCCGSKCAFVCL 29

RESULT 3

US-09-749-637a-267

; Sequence 267, Application US/09749637A

; Patent No. US20020173449A1

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olivera, Baldomero M.

; APPLICANT: Carrier, G. Edward

; APPLICANT: Watkins, Maren

; APPLICANT: Hillyard, David R.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Layer, Richard T.

; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides

; FILE REFERENCE: 2314-227

; CURRENT APPLICATION NUMBER: US/09/749, 637A

; CURRENT FILING DATE: 2000-12-28

; PRIOR APPLICATION NUMBER: US 60/243, 412

; PRIOR FILING DATE: 2000-10-27

; PRIOR APPLICATION NUMBER: US60/219, 440

; PRIOR FILING DATE: 2000-07-20

; PRIOR APPLICATION NUMBER: US 60/214, 263

; PRIOR FILING DATE: 2000-06-26

; PRIOR APPLICATION NUMBER: US 60/173, 754

; PRIOR FILING DATE: 1999-12-30

; NUMBER OF SEQ ID NOS: 409

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO: 268

; LENGTH: 29

; TYPE: PRT

; ORGANISM: *Conus striatus*

; FEATURE: SITE

; NAME/KEY: SITE

; LOCATION: (1) .(29)

; OTHER INFORMATION: Xaa at residue3 may be Trp or bromo-Trp; Xaa at residue 6 may

; OTHER INFORMATION: Pro or hydroxy-Pro; Xaa at residue 9 may be Glu or gamma-carbo:

; OTHER INFORMATION: -Glu

Tue Nov 18 11:55:36 2003

us-09-749-637a-271.rabp

RESULTS

US-09-749-637A-274
; Sequence 274, Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hillyard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Layer, Richard T.
; FILE REFERENCE: 2314-227
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 274
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Conus striatus
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (11...)(27)
; OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; xaa at residue 4 may be
; OTHER INFORMATION: Pro or hydroxy-Pro
US-09-749-637A-274

Query Match Score 92.8%; Best Local Similarity 96.2%; Matches 25;保守型 0; Mismatches 1; Indels 0; Gaps 0;
Qy 2 CIXSGDLCFRSDDHGCCSCKCAFVCL 27
Db 2 CIXSGDLCFRSDDHGCCSCKCAFVCL 27

RESULT 6
US-09-749-637A-273
; Sequence 273, Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Layer, Richard T.
; FILE REFERENCE: 2314-227
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 393
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Conus stercusmuscarum
US-09-749-637A-393

Query Match Score 85.5%; Best Local Similarity 84.6%; Matches 22;保守型 1; Mismatches 3; Indels 0; Gaps 0;
Qy 2 CIXSGDLCFRSDDHGCCSCKCAFVCL 27
Db 57 CIPSGELCFRSDDHGCCSCKCAFVCL 82

RESULT 8
US-09-749-637A-373
; Sequence 373, Application US/09749637A
; Patent No. US20020173449A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Layer, Richard T.
; FILE REFERENCE: 2314-227
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 393
; LENGTH: 82
; TYPE: PRT
; ORGANISM: Conus stercusmuscarum
US-09-749-637A-393

/ APPLICANT: Jones, Robert M.
 / TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 / FILE REFERENCE: 2314-227
 / CURRENT APPLICATION NUMBER: US/09/749,637A
 / CURRENT FILING DATE: 2000-12-28
 / PRIOR APPLICATION NUMBER: US 60/243,412
 / PRIOR FILING DATE: 2000-10-27
 / PRIOR APPLICATION NUMBER: US60/219,440
 / PRIOR FILING DATE: 2000-07-20
 / PRIOR APPLICATION NUMBER: US 60/214,263
 / PRIOR FILING DATE: 2000-06-26
 / PRIOR APPLICATION NUMBER: US 60/173,754
 / PRIOR FILING DATE: 1999-12-30
 / NUMBER OF SEQ ID NOS: 409
 / SOFTWARE: Patentin version 3.0
 / SEQ ID NO: 373
 / LENGTH: 26
 / TYPE: PRT
 / ORGANISM: *Conus circumcisus*
 / FEATURE:
 / NAME/KEY: SITE
 / LOCATION: (1) .. (26)
 / OTHER INFORMATION: Xaa at residues 3 and 10 may be Pro or hydroxy-Pro.
 US-09-749-637A-373

Query Match Score 129; DB 10; Length 26;
 Best Local Similarity 88.5%; Pred. No. 2.8e-03;
 Matches 23; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;

Qy 2 CIXSGDLCFRSDHIGCCGKCAFVCL 27
 Db 1 CIXSSPLCFSRDIQCCSAKCAFVCL 26

RESULT 9
 US-09-749-637A-370
 / Patent No. US20017449A1
 / GENERAL INFORMATION:
 / APPLICANT: University of Utah Research Foundation
 / APPLICANT: Cognetix, Inc.
 / APPLICANT: Olivera, Baldomero M.
 / APPLICANT: Cartier, G. Edward
 / APPLICANT: Watkins, Maren
 / APPLICANT: Hillyard, David R.
 / APPLICANT: McIntosh, J. Michael
 / APPLICANT: Layer, Richard T.
 / APPLICANT: Jones, Robert M.
 / TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 / FILE REFERENCE: 2314-227
 / CURRENT APPLICATION NUMBER: US/09/749,637A
 / CURRENT FILING DATE: 2000-12-28
 / PRIOR APPLICATION NUMBER: US 60/243,412
 / PRIOR FILING DATE: 2000-10-27
 / PRIOR APPLICATION NUMBER: US60/219,440
 / PRIOR FILING DATE: 2000-07-20
 / PRIOR APPLICATION NUMBER: US 60/214,263
 / PRIOR FILING DATE: 2000-06-26
 / PRIOR APPLICATION NUMBER: US 60/173,754
 / PRIOR FILING DATE: 1999-12-30
 / NUMBER OF SEQ ID NOS: 409
 / SOFTWARE: Patentin version 3.0
 / SEQ ID NO: 379
 / LENGTH: 27
 / TYPE: PRT
 / ORGANISM: *Conus circumcisus*
 / NAME/KEY: SITE
 / LOCATION: (1) .. (27)
 / OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; Xaa at residues 4 and 11 other information: I may be Pro or hydroxy-Pro.
 US-09-749-637A-379

Query Match Score 129; DB 10; Length 27;
 Best Local Similarity 88.5%; Pred. No. 2.8e-09;
 Matches 23; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;

Qy 2 CIXSGDLCFRSDHIGCCGKCAFVCL 27
 Db 2 CIXSSPLCFSRDIQCCSAKCAFVCL 27

RESULT 11
 US-09-749-637A-369
 / Sequence 369 Application US/09749637A
 / Patent No. US20017449A1
 / GENERAL INFORMATION:
 / APPLICANT: University of Utah Research Foundation
 / APPLICANT: Cognetix, Inc.
 / APPLICANT: Olivera, Baldomero M.
 / APPLICANT: Cartier, G. Edward
 / APPLICANT: Watkins, Maren
 / APPLICANT: Hillyard, David R.
 / APPLICANT: McIntosh, J. Michael
 / APPLICANT: Layer, Richard T.
 / APPLICANT: Jones, Robert M.
 / TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
 / FILE REFERENCE: 2314-227

RESULT 12
 CURRENT APPLICATION NUMBER: US/09/749,637A
 PRIOR APPLICATION NUMBER: US 60/243,412
 PRIOR FILING DATE: 2000-10-27
 PRIOR APPLICATION NUMBER: US/0/219,440
 PRIOR FILING DATE: 2000-07-20
 PRIOR APPLICATION NUMBER: US 60/214,263
 PRIOR FILING DATE: 2000-06-26
 PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 369
 LENGTH: 31
 TYPE: PRT
 ORGANISM: *Conus circumcisus*
 US-09-749-637A-369

Query Match 83.6%; Score 127; DB 10; Length 31;
 Best Local Similarity 84.6%; Pred. No. 5. 5e-09;
 Matches 22; Conservative 0; Mismatches 4;
 Indels 0; Gaps 0;

Qy 2 CIXSGDLCFRSRSDHIGCCSGKCAFVCL 27
 Db 6 CIPSGDLCFPSDHIOCCSAKCAFVCL 31

RESULT 13
 Sequence 372, Application US/09749637A
 Patient No. US2002017349A1.

GENERAL INFORMATION:
 APPLICANT: University of Utah Research Foundation
 Cognetix, Inc.
 PRIOR APPLICATION NUMBER: US/0/219,440
 PRIOR FILING DATE: 2000-10-27
 PRIOR APPLICATION NUMBER: US 60/214,263
 PRIOR FILING DATE: 2000-06-26
 PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 372
 LENGTH: 31
 TYPE: PRT
 ORGANISM: *Conus circumcisus*
 US-09-749-637A-372

Query Match 83.6%; Score 127; DB 10; Length 31;
 Best Local Similarity 84.6%; Pred. No. 5.5e-09;
 Matches 22; Conservative 0; Mismatches 4;
 Indels 0; Gaps 0;

Qy 2 CIXSGDLCFRSRSDHIGCCSGKCAFVCL 27
 Db 6 CIPSGDLCFPSDHIOCCSAKCAFVCL 31

RESULT 14
 Sequence 367, Application US/09749637A
 Patient No. US2002017349A1.

GENERAL INFORMATION:
 APPLICANT: University of Utah Research Foundation
 Cognetix, Inc.
 PRIOR APPLICATION NUMBER: US/0/219,440
 PRIOR FILING DATE: 2000-10-27
 PRIOR APPLICATION NUMBER: US 60/214,263
 PRIOR FILING DATE: 2000-06-26
 PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 378
 LENGTH: 31
 TYPE: PRT
 ORGANISM: *Conus circumcisus*
 US-09-749-637A-378

Query Match 83.6%; Score 127; DB 10; Length 31;
 Best Local Similarity 84.6%; Pred. No. 5.5e-09;
 Matches 22; Conservative 0; Mismatches 4;
 Indels 0; Gaps 0;

Qy 2 CIXSGDLCFPSDHIGCCSGKCAFVCL 27
 Db 6 CIPSGDLCFPSDHIOCCSAKCAFVCL 31

RESULT 15
 Sequence 373, Application US/09749637A
 Patient No. US2002017349A1.

GENERAL INFORMATION:
 APPLICANT: University of Utah Research Foundation
 Cognetix, Inc.
 PRIOR APPLICATION NUMBER: US/0/219,440
 PRIOR FILING DATE: 2000-10-27
 PRIOR APPLICATION NUMBER: US 60/214,263
 PRIOR FILING DATE: 2000-06-26
 PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 373
 LENGTH: 31
 TYPE: PRT
 ORGANISM: *Conus circumcisus*
 US-09-749-637A-373

Query Match 83.6%; Score 127; DB 10; Length 31;
 Best Local Similarity 84.6%; Pred. No. 5.5e-09;
 Matches 22; Conservative 0; Mismatches 4;
 Indels 0; Gaps 0;

Qy 2 CIXSGDLCFRSRSDHIGCCSGKCAFVCL 27
 Db 6 CIPSGDLCFPSDHIOCCSAKCAFVCL 31

RESULT 16
 Sequence 378, Application US/09749637A
 Patient No. US2002017349A1.

GENERAL INFORMATION:
 APPLICANT: University of Utah Research Foundation
 Cognetix, Inc.
 PRIOR APPLICATION NUMBER: US/0/219,440
 PRIOR FILING DATE: 2000-10-27
 PRIOR APPLICATION NUMBER: US 60/214,263
 PRIOR FILING DATE: 2000-06-26
 PRIOR APPLICATION NUMBER: US 60/173,754
 PRIOR FILING DATE: 1999-12-30
 NUMBER OF SEQ ID NOS: 409
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 367
 LENGTH: 26
 TYPE: PRT
 ORGANISM: *Conus circumcisus*
 FEATURE:

US-09-749-637A-378
 Sequence 378, Application US/09749637A

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; NAME/KEY: SITE
; LOCATION: (1).(26)
; OTHER INFORMATION: Xaa at residues 3 and 10 may be Pro or hydroxy-Pro.
; us-09-749-637a-367

Query Match          Score 126; DB 10; Length 26;
Best Local Similarity 84.6%; Pred. No. 6 3e-09;
Matches 22; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
Qy 2 CIXSGDLCFRSDHIGCCSGKCAFVCL 27
      ||||| | | | | | | | | | | | | | | | | | | |
Db. 1 CIXSGDLCFXSDHIQCCNAKCAFVCL 26
      ||||| | | | | | | | | | | | | | | | | | | |

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RESULT 15
US-09-749-637a-385
; Sequence 385, Application US/09749637A
; Patent No. US2002017349A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; Cognitix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hilliard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Layer, Richard T.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09/749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 385
; LENGTH: 27
; TYPE: PROTEIN
; ORGANISM: Conus circumcisus
; FEATURE: SITE
; NAME/KEY: SITE
; LOCATION: (1).(27)
; OTHER INFORMATION: Xaa at residue 1 may be Trp or bromo-Trp; xaa at residues 4 and 1
; us-09-749-637a-385

Query Match          Score 126; DB 10; Length 27;
Best Local Similarity 84.6%; Pred. No. 6.5e-09;
Matches 22; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
Qy 2 CIXSGDLCFRSDHIGCCSGKCAFVCL 27
      ||||| | | | | | | | | | | | | | | | | | | |
Db. 2 CIXSGDLCFXSDHIQCCNAKCAFVCL 27
      ||||| | | | | | | | | | | | | | | | | | | |

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
OM protein - protein search, using sw model
Run on: November 17, 2003, 17:11:13 ; Search time 13.9821 Seconds
(without alignments)
81.704 Million cell updates/sec

Title: US-09-749-637A-271

Sequence: 1 XCIIXGDLCFRSDFHGCCSGKCAFVCL 27

Scoring table: BioSUM62

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Searched: 328717 seqs, 42310858 residues

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Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Listing First 45 summaries

Database : Issued Patents AA:*

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6: /cgn2_6/ptodata/1/iaa/backfile5.pep;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match Length	DB ID	Description
1	61	40.1	37 1 US-09-682-485A-4	Sequence 4, Appli
2	61	40.1	37 2 US-08-933-314-4	Sequence 4, Appli
3	50.5	33.2	36 2 US-08-505-486-86	Sequence 86, Appli
4	50.5	33.2	36 3 US-08-801-028-86	Sequence 86, Appli
5	50.5	33.2	36 3 US-08-340-154-86	Sequence 86, Appli
6	50.5	33.2	36 4 US-09-482-611B-85	Sequence 86, Appli
7	50.5	33.2	36 5 PCT-US95-09338-86	Sequence 86, Appli
8	50.5	33.2	36 5 PCT-US95-09339-86	Sequence 86, Appli
9	50	32.9	27 1 US-07-689-693B-6	Sequence 8, Appli
10	50	32.9	27 1 US-07-689-693B-6	Sequence 8, Appli
11	50	32.9	37 2 US-08-933-314-8	Sequence 8, Appli
12	50	32.9	78 1 US-08-624-123-13	Sequence 13, Appli
13	50	32.9	78 2 US-08-716-308-2	Sequence 2, Appli
14	50	32.9	78 2 US-08-16-308-16	Sequence 16, Appli
15	50	32.9	78 5 PCT-US96-05262-14	Sequence 14, Appli
16	50	32.9	78 5 PCT-US96-05262-14	Sequence 2, Appli
17	49.5	32.6	36 1 US-08-117-080-2	Sequence 2, Appli
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19	49.5	32.6	36 1 US-08-471-329-2	Sequence 2, Appli
20	49.5	32.6	36 1 US-08-471-329-4	Sequence 4, Appli
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22	49.5	32.6	36 2 US-08-915-142-4	Sequence 4, Appli
23	49.5	32.6	36 2 US-08-505-486-85	Sequence 85, Appli
24	49.5	32.6	36 3 US-08-801-028-85	Sequence 85, Appli
25	49.5	32.6	36 3 US-09-340-154-85	Sequence 85, Appli
26	49.5	32.6	36 4 US-09-482-611B-85	Sequence 85, Appli
27	49.5	32.6	36 5 PCT-US95-09338-85	Sequence 85, Appli

ALIGNMENTS

28 49.5 32.6 36 5 PCT-US95-09339-85
29 49.5 32.6 37 1 US-08-117-080-1
30 49.5 32.6 37 1 US-08-117-080-3
31 49.5 32.6 37 1 US-08-471-329-1
32 49.5 32.6 37 1 US-08-471-329-3
33 49.5 32.6 37 2 US-08-915-142-1
34 49.5 32.6 37 2 US-08-915-142-3
35 49.5 32.6 37 2 US-08-505-486-84
36 49.5 32.6 37 3 US-08-801-028-84
37 49.5 32.6 37 3 US-09-340-154-84
38 49.5 32.6 37 4 US-08-482-611B-84
39 49.5 32.6 37 5 PCT-US95-09338-84
40 49.5 32.6 37 5 PCT-US95-09339-84
41 49.5 32.6 61 1 US-08-117-080-10
42 49.5 32.6 61 1 US-08-471-329-10
43 49.5 32.6 61 2 US-08-915-142-10
44 49.5 32.6 63 1 US-08-117-080-12
45 49.5 32.6 63 1 US-08-471-329-12

RESULT 1
US-09-682-485A-4
Sequence 4, Application US/08682485A
Patent No. 5763568
GENERAL INFORMATION:
APPLICANT: ATKINSON, RONALD K.
APPLICANT: HOWDEN, MERLIN E. H.
APPLICANT: TYLER, MARGARET I.
TITLE OF INVENTION: Insecticidal Toxins Derived From Hadronyche Spiders
TITLE OF INVENTION: Funnel Web (Atrax or Hadronyche Spiders)
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Zeneca, Inc.
CITY: Richmond
STREET: 1200 South 47th Street
STATE: California
COUNTRY: USA
ZIP: 94804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/682-485A
FILING DATE: 27-JULY-1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/682-485
FILING DATE: 17-JULY-1996
APPLICATION NUMBER: US/08/256,933
FILING DATE: 27-JULY-1994
APPLICATION NUMBER: WO 93/15108
FILING DATE: 29-JAN-1993
APPLICATION NUMBER: AU PL0722
FILING DATE: 31-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Shaw, Melissa A.
REGISTRATION NUMBER: 38,301
REDOCKET NUMBER: PPD 5099/D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-231-1542
TELEFAX: 510-231-1112
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: *Atrax robustus*
 FEATURE: Modified-site
 NAME/KEY: 37
 LOCATION: 37
 OTHER INFORMATION: /label= a
 /note= "this site may be amidated without loss
 of biological activity"
 /OTHER INFORMATION: US-08-682-485A-4

Query Match 40.1%; Score 61; DB 1; Length 37;
 Best Local Similarity 47.8%; Pred. No. 1.2;
 Matches 11; Conservative 3; Mismatches 7; Indels 2; Gaps 1;

Qy	2 CIXSGDLCFRSDDHICCSGKCAF 24	Qy	2 CIXSGDLCFRSDDHICGSCKCAF 24
Db	4 CIPSGQCPYNEH--CCSGSCTY 24	Db	4 CIPSGQCPYNEH--CCSGSCTY 24

RESULT 3
 US-08-505-486-86

Sequence 86, Application US/08505486
 / Patent No. 5595573
 GENERAL INFORMATION:
 APPLICANT: Jesse M. Jaynes
 TITLE OF INVENTION: UBIQUITIN-LYTIC PEPTIDE FUSION GENE
 TITLE OF INVENTION: CONSTRUCTS, PROTEIN PRODUCTS DERIVED THEREFROM, AND
 TITLE OF INVENTION: METHODS OF MAKING AND USING SAME
 NUMBER OF SEQUENCES: 98
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ROTHWELL, PIGG, ERNST & KURZ
 STREET: 555 Thirteenth Street N.W.
 CITY: Washington
 STATE: D. C.
 COUNTRY: USA
 ZIP: 20004
 COMPUTER READABLE FORM:
 MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.4 MB STORAGE
 COMPUTER: IBM COMPATIBLE
 OPERATING SYSTEM: DOS
 SOFTWARE: WordPerfect 5.1+

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/505486
 FILING DATE: 21-JUL-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: U.S. 08/279,472
 FILING DATE: 22-JUL-1994
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: WALKER, BARBARA W.
 REGISTRATION NUMBER: 35,400
 REFERENCE/DOCKET NUMBER: 2093-117A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202)783-6040
 TELEFAX: (202)733-6031
 INFORMATION FOR SEQ ID NO: 86:
 LENGTH: 36
 TYPE: AMINO ACID
 TOPOLOGY: LINEAR
 MOLECULE TYPE:
 DESCRIPTION: PEPTIDE
 HYPOTHETICAL: NO
 FRAGMENT TYPE: COMPLETE PEPTIDE
 ORIGINAL SOURCE: SYNTHETIC
 IMMEDIATE SOURCE: SYNTHETIC
 PUBLICATION INFORMATION: NOT PREVIOUSLY PUBLISHED
 US-08-505-486-86

Query Match 33.2%; Score 50.5; DB 2; Length 36;
 Best Local Similarity 45.8%; Pred. No. 17;
 Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Query Match 40.1%; Score 61; DB 2; Length 37;
 Best Local Similarity 47.8%; Pred. No. 1.2;
 Matches 11; Conservative 3; Mismatches 7; Indels 2; Gaps 1;

RESULT 2
 US-08-933-314-4

Sequence 4, Application US/08933314
 / Patent No. 5959112
 GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K.
 APPLICANT: HOWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET I.
 APPLICANT: WOOLRICH, EDWARD J.
 TITLE OF INVENTION: Insecticidal Toxins Derived From
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESS: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 21SP: 94804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentnet Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PL0722
 FILING DATE: 31-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 REFERENCE/DOCKET NUMBER: PPD 5099/D1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 510-231-1542
 TELEFAX: 510-231-1112
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

Qy 2 CIXSGDLCFRSDHIG---CCSGKC 22
 | | | | | | | | | | | | | | | | | |
 1 CIGGCKC--QDQGPPCCSGYC 22

Db 1 CIGGGCKC--QDOLGPPCCSGYC 22

RESULT 4
 US-08-801-028-86 Application US/08801028
 ; Sequence 86, Application US/08801028
 ; Patent No. 6018102
 ; GENERAL INFORMATION:
 ; APPLICANT: JOAN GARBARINO
 ; APPLICANT: JESSE M. JAYNES
 ; APPLICANT: WILLIAM BELKNAP
 ; TITLE OF INVENTION: UBIQUITIN-LYTIC PEPTIDE FUSION GENE CONSTRUCTS, PROTEIN PRODUCTS DERIVING THEREFROM, AND METHODS OF MAKING AND USING SAME
 ; NUMBER OF SEQUENCES: 98
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: STEVEN J. HULTQUIST
 ; ADDRESS: INTELLECTUAL PROPERTY/TECHNOLOGY LAW
 ; STREET: 200 PARK DRIVE, SUITE 210
 ; STREET: P.O. BOX 14329
 ; CITY: RESEARCH TRIANGLE PARK
 ; STATE: NORTH CAROLINA
 ; COUNTRY: USA
 ; ZIP: 27709
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.4 MB STORAGE
 ; COMPUTER: APPLE MACINTOSH
 ; OPERATING SYSTEM: MACINTOSH
 ; SOFTWARE: M.S. WORD 5.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/801,028
 ; FILING DATE: 19-FEB-1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/279,472
 ; FILING DATE: JULY 22, 1994
 ; APPLICATION NUMBER: 08/225,476
 ; FILING DATE: 04-20-94
 ; APPLICATION NUMBER: 08/225,476
 ; FILING DATE: 04-08-94
 ; APPLICATION NUMBER: 08/039,620
 ; FILING DATE: 06-04-93
 ; APPLICATION NUMBER: 08/148,491
 ; FILING DATE: 11-08-93
 ; APPLICATION NUMBER: 08/148,889
 ; FILING DATE: 11-08-93
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: WASSERMAN, FRAN S.
 ; REFERENCE/DOCKET NUMBER: 4013-104
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (919)990-9531
 ; TELEFAX: (919)990-9532
 ; INFORMATION FOR SEQ ID NO: 86:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 36
 ; TYPE: AMINO ACID
 ; TOPOLOGY: LINEAR
 ; MOLECULE TYPE: PEPTIDE
 ; DESCRIPTION: PEPTIDE
 ; HYPOTHETICAL: NO
 ; FRAGMENT TYPE: COMPLETE PEPTIDE
 ; IMMEDIATE SOURCE: SYNTHETIC
 ; ORIGINAL SOURCE: SYNTHETIC
 ; PUBLICATION INFORMATION: NOT PREVIOUSLY PUBLISHED
 ; US-08-801-028-86

Qy 2 CIXSGDLCFRSDHIG---CCSGKC 22
 | | | | | | | | | | | | | | | | | |
 Query Match 33.2%; Score 50.5; DB 3; Length 36;
 Best Local Similarity 45.8%; Pred. No. 17; Mismatches 7; Indels 5; Gaps 2;

Db 1 CIGGCKC--QDOLGPPCCSGYC 22

RESULT 5
 US-09-340-154-86 Application US/09340154
 ; Sequence 86, Application US/09340154
 ; Patent No. 6084156
 ; GENERAL INFORMATION:
 ; APPLICANT: Jesse M. Jaynes
 ; TITLE OF INVENTION: UBIQUITIN-LYTIC PEPTIDE FUSION GENE CONSTRUCTS, PROTEIN PRODUCTS DERIVING THEREFROM, AND METHODS OF MAKING AND USING SAME
 ; NUMBER OF SEQUENCES: 98
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ROTHWELL, FIGG, ERNST & KURZ
 ; STREET: 555 Thirteenth Street N.W.
 ; CITY: Washington
 ; STATE: D. C.
 ; COUNTY: USA
 ; ZIP: 20004
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: DISKETTES, 3.5 INCH, 1.4 MB STORAGE
 ; COMPUTER: IBM COMPATIBLE
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: WordPerfect 5.1+
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/340,154
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/505,486
 ; FILING DATE: 21-JUL-1995
 ; APPLICATION NUMBER: U.S. 08/279,472
 ; FILING DATE: 22-JUL-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: WALKER, BARBARA W.
 ; REGISTRATION NUMBER: 35,400
 ; REFERENCE/DOCKET NUMBER: 2093-117A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202)783-6040
 ; TELEFAX: (202)783-0311
 ; INFORMATION FOR SEQ ID NO: 86:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 36
 ; TYPE: AMINO ACID
 ; TOPOLOGY: LINEAR
 ; MOLECULE TYPE: PEPTIDE
 ; DESCRIPTION: PEPTIDE
 ; HYPOTHETICAL: NO
 ; FRAGMENT TYPE: COMPLETE PEPTIDE
 ; ORIGINAL SOURCE: SYNTHETIC
 ; IMMEDIATE SOURCE: SYNTHETIC
 ; PUBLICATION INFORMATION: NOT PREVIOUSLY PUBLISHED
 ; US-09-340-154-86

Qy 2 CIXSGDLCFRSDHIG---CCSGKC 22
 | | | | | | | | | | | | | | | | | |
 Query Match 33.2%; Score 50.5; DB 3; Length 36;
 Best Local Similarity 45.8%; Pred. No. 17; Mismatches 7; Indels 5; Gaps 2;

Db 1 CIGGCKC--QDOLGPPCCSGYC 22

RESULT 6
 US-09-482-611B-86 Application US/09482611B
 ; Sequence 86, Application US/09482611B
 ; Patent No. 6448391
 ; GENERAL INFORMATION:
 ; APPLICANT: Garbarino, Joan
 ; APPLICANT: Belknap, William
 ; TITLE OF INVENTION: Ubiquitin-Lytic Peptide Fusion Gene Constructs, Protein Products
 ; TITLE OF INVENTION: Therefrom, and Methods of Making and Using Same

Qy 2 CIXSGDLCFRSDHIG---CCSGKC 22
 | | | | | | | | | | | | | | | | | |
 Query Match 33.2%; Score 50.5; DB 3; Length 36;
 Best Local Similarity 45.8%; Pred. No. 17; Mismatches 7; Indels 5; Gaps 2;

FILE REFERENCE: 2093-149
 CURRENT APPLICATION NUMBER: US/09/482,61B
 CURRENT FILING DATE: 2000-01-14
 PRIOR APPLICATION NUMBER: US 08/801,028
 PRIOR FILING DATE: 1997-02-19
 PRIOR APPLICATION NUMBER: US 08/279,472
 PRIOR FILING DATE: 1994-07-22
 NUMBER OF SEQ ID NOS: 102
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 86
 LENGTH: 36
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Lytic Peptide
 US-09-482-61B-86

Query Match 33.2%; Score 50.5; DB 4; Length 36;
 Best Local Similarity 45.8%; Pred. No. 17;
 Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy	2 CIXSGDLCRSDHIG--CCSGKC 22
Db	1 CIGQQGKC-QDQLGPPCCSGYC 22

RESULT 7
 PCT-US95-09338-86
 Sequence 86, Application PC/TUS9509338
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: UBIQUITIN-LYTIC PEPTIDE FUSION GENE
 CONSTRUCTS, PROTEIN PRODUCTS DERIVING THEREFROM, AND
 METHODS OF MAKING AND USING THE SAME
 NUMBER OF SEQUENCES: 98
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1+

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/09338
 FILING DATE: 21-JUL-1994
 PRIOR APPLICATION NUMBER: US/08/279,472
 FILING DATE: 22-JUL-1994
 INFORMATION FOR SEQ ID NO: 86:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 36
 TYPE: AMINO ACID
 TOPOLOGY: LINEAR
 MOLECULE TYPE: PEPTIDE
 HYPOTHETICAL: NO
 FRAGMENT TYPE: COMPLETE PEPTIDE
 ORIGINAL SOURCE: SYNTHETIC
 IMMEDIATE SOURCE: SYNTHETIC
 PUBLICATION INFORMATION: NOT PREVIOUSLY PUBLISHED
 PCT-US95-09338-86

Query Match 33.2%; Score 50.5; DB 5; Length 36;
 Best Local Similarity 45.8%; Pred. No. 17;
 Matches 11; Conservative 1; Mismatches 7; Indels 5; Gaps 2;

Qy	2 CIXSGDLCRSDHIG--CCSGKC 22
Db	1 CIGQQGKC-QDQLGPPCCSGYC 22

RESULT 9
 US-07-689-693B-6
 Sequence 6, Application US/07689693B
 GENERAL INFORMATION:
 PATENT NO. 5231011
 APPLICANT: David Hillyard
 ADDRESS: Baldanero M. Olivera
 TITLE OF INVENTION: Segregated Folding Determinants
 TITLE OF INVENTION: For Small Disulfide-Rich Peptides
 NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESS:
 STREET: 9035 South 700 East, Suite 200
 CITY: Sandy
 STATE: Utah
 COUNTRY: USA
 ZPP: 84070
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage
 COMPUTER: Compaq LTE/286
 OPERATING SYSTEM: DOS 4.01
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/689,693B
 FILING DATE: 19910418
 CLASSIFICATION: 530
 PRIOR APPLICATION NUMBER: none
 FILING DATE: da
 ATTORNEY/AGENT INFORMATION:
 NAME: Western, M. Wayne
 REGISTRATION NUMBER: 22,788
 REFERENCE/DOCKET NUMBER: 9925

RESULT 8
 PCT-US95-09339-86
 Sequence 86, Application PC/TUS9509339
 GENERAL INFORMATION:

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (801) 566-6633
 TELEX/FAX: (801) 566-0750
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 TYPE: AMINO ACID
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FEATURE:
 NAME/KEY: King Kong (kk0) conotoxin
 IDENTIFICATION METHOD: Direct peptide sequencing
 IDENTIFICATION: of purified Conus textile venom
 US-07-689-693B-6

Query Match 32.9%; Score 50; DB 1; Length 27;
 Best Local Similarity 42.3%; Pred No. 15;
 Matches 11; Conservative 2; Mismatches 11; Indels 2;
 Gaps 2;

Qy 2 CIXSGDLCFRSDHIGCSGKAF-AFVCA 26
 Db 2 CKQSGEMCNLIDQ-NCCDGIVLVCA 26

RESULT 10
 US-08-682-485A-8
 Sequence 8, Application US/08682485A
 Patent No. 5763568

GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K.
 APPLICANT: ROWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET J.
 APPLICANT: VONARX, EDWARD J.

TITLE OF INVENTION: Insecticidal Toxins Derived From
 TITLE OF INVENTION: Funnel Web (Atrax or Hadronyche Spiders)
 NUMBER OF SEQUENCES: 26

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804

COMPUTER READABLE FORM:
 MEDIUM: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485A
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: US/08/256,933
 FILING DATE: 27-JULY-1994
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PL0722
 FILING DATE: 31-JAN-1992

ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 510-231-1542
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 TYPE: amino acid
 LENGTH: 37
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO

MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Atrax formidabilis
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: 37

OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss
 OTHER INFORMATION: of biological activity"
 US-08-682-485A-8

Query Match 32.9%; Score 50; DB 1; Length 37;
 Best Local Similarity 43.5%; Pred No. 19;
 Matches 10; Conservative 3; Mismatches 8; Indels 2;
 Gaps 1;

Qy 2 CIXSGDLCFRSDHIGCSGKCAF 24
 Db 4 CIRSQOPCPYNEN-CCSQSCTF 24

RESULT 11
 US-08-933-314-8
 Sequence 8, Application US/08933314
 Patent No. 5959162

GENERAL INFORMATION:
 APPLICANT: ATKINSON, RONALD K.
 APPLICANT: ROWDEN, MERLIN E.H.
 APPLICANT: TYLER, MARGARET J.
 APPLICANT: VONARX, EDWARD J.

TITLE OF INVENTION: Insecticidal Toxins Derived From
 NUMBER OF SEQUENCES: 26

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Zeneca, Inc.
 STREET: 1200 South 47th Street
 CITY: Richmond
 STATE: California
 COUNTRY: USA
 ZIP: 94804

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/933,314
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION NUMBER: US/08/682,485
 FILING DATE: 17-JULY-1996
 APPLICATION NUMBER: WO 93/15108
 FILING DATE: 29-JAN-1993
 APPLICATION NUMBER: AU PL0722
 FILING DATE: 31-JAN-1992

ATTORNEY/AGENT INFORMATION:
 NAME: Shaw, Melissa A.
 REGISTRATION NUMBER: 38,301
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 510-231-1112
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 37 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO

ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Atrax formidabilis
 FEATURE:
 NAME/KEY: Modified-site
 OTHER INFORMATION: /label= a
 OTHER INFORMATION: /note= "this site may be amidated without loss
 OTHER INFORMATION: of biological activity"
 US-08-933-314-8

Query Match Score 50; DB 2; Length 37;
 Best Local Similarity 43.5%; Pred. No. 19;
 Matches 10; Conservative 3; Mismatches 8; Indels 2; Gaps 1;

Qy 2 CIXS6DLCFRSDHIGCCSGKC-AFVC 26
 Db 4 CIRSGQPCPYEN -CCSQSCTF 24

RESULT 12
 US-07-689-693B-5
 ; Sequence 5, Application US/07689693B
 ; Patent No. 5231011
 ; GENERAL INFORMATION:
 ; APPLICANT: David Hillyard
 ; COMPUTER: Baldomero M. Olivera
 ; TITLE OF INVENTION: Segregated Folding Determinants
 ; TITLE OF INVENTION: for Small Bisulfide-Rich Peptides
 ; NUMBER OF SEQUENCES: 25
 ; CURRENT APPLICATION DATA:
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Thorpe, No. 5231011th & Western
 ; STREET: 9015 South 700 East, Suite 200
 ; CITY: Sandy
 ; STATE: Utah
 ; COUNTRY: USA
 ; ZIP: 84070
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 inch, 720 Kb storage
 ; COMPUTER: Compaq LTE/286
 ; OPERATING SYSTEM: DOS 4.01
 ; SOFTWARE: Word Perfect 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/689, 693B
 ; FILING DATE: 12/91/04 18
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: none
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Western, M. Wayne
 ; REGISTRATION NUMBER: 12, 788
 ; REFERENCE/DOCKET NUMBER: 9925
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (801) 566-6633
 ; TELEFAX: (801) 566-0750
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 78 amino acids
 ; TYPE: AMINO ACID
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; FEATURE:
 ; NAME/KEY: Prepropeptide sequence for four loop
 ; NAME/KEY:
 ; IDENTIFICATION METHOD: Library was constructed mRNA transcripts purified from Conus textile venom duct tissue and cloned into the Ohyama-Berg oligo-dT primed plasmid pSV7186.
 ; IDENTIFICATION METHOD:
 ; IDENTIFICATION METHOD:
 ; IDENTIFICATION METHOD:
 US-07-689-693B-5

Query Match Score 50; DB 1; Length 78;
 Best Local Similarity 42.3%; Pred. No. 35;
 Matches 11; Conservatve 2; Mismatches 11; Indels 2; Gaps 2;

Qy 2 CIXS6DLCFRSDHIGCCSGKC-AFVC 26
 Db 53 CROQSEMNCNLDQ -CCSDSYCIVLVC 77

RESULT 13
 US-08-624-123-13
 ; Sequence 13, Application US/08624123
 ; GENERAL INFORMATION:
 ; PATENT NO. 5739216
 ; APPLICANT: Shon, Ki-Joon
 ; COMPUTER: Grilley, Michelle M.
 ; APPLICANT: Olivera, Baldomero M.
 ; TITLE OF INVENTION: Conotoxin Peptides
 ; NUMBER OF SEQUENCES: 13
 ; CURRENT APPLICATION DATA:
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
 ; STREET: 1201 New York Avenue N.W.
 ; CITY: Washington
 ; STATE: DC
 ; COUNTRY: US
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/624,123
 ; FILING DATE:
 ; CLASSIFICATION: 530
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/319,554
 ; FILING DATE: 07-OCT-1994
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/423,561
 ; FILING DATE: 17-APR-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Innes, Jeffrey L.
 ; REGISTRATION NUMBER: 28, 957
 ; REFERENCE/DOCKET NUMBER: 24260-107674-5
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-962-8300
 ; TELEFAX: 202-962-8300
 ; INFORMATION FOR SEQ ID NO: 13:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 78 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: Protein
 ; HYPOTHETICAL: NO
 US-08-624-123-13

Query Match Score 50; DB 1; Length 78;
 Best Local Similarity 42.3%; Pred. No. 35;
 Matches 11; Conservatve 2; Mismatches 11; Indels 2; Gaps 2;

Qy 2 CIXS6DLCFRSDHIGCCSGKC-AFVC 26
 Db 53 CROQSEMNCNLDQ -CCSDSYCIVLVC 77

RESULT 14
 US-08-715-308-2
 ; Sequence 2, Application US/08715308
 ; Patent No. 5885559
 ; GENERAL INFORMATION:
 ; APPLICANT: Wandas, John D.
 ; TITLE OF INVENTION: Biological Insect Control Agent

Query Match Score 50; DB 1; Length 78;

NUMBER OF SEQUENCES: 18
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ZENECA Inc.
 STREET: 1800 Concord Pike
 CITY: Wilmington
 STATE: DE
 COUNTRY: USA
 ZIP: 19850
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/716,308
 FILING DATE: 24-SEP-1996
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB95/00677
 FILING DATE: 27-MAR-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: GB 9405951.6
 FILING DATE: 25-MAR-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Hohenischutz, Liza D.
 REGISTRATION NUMBER: 33,712
 REFERENCE/DOCKET NUMBER: PPD40027X/UST
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (302) 886-1639
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 78 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-716-308-16

Query Match 32.9% Score 50; DB 2; Length 78;
 Best Local Similarity 42.3%; Pred. No. 35;
 Matches 11; Conservative 2; Mismatches 11; Indels 2;
 Gaps 2;
 Qy 2 CIXSGDLCRSDHIGCCGCKC-AFVC 26
 Db 53 CROSGEMCNLDDQ-NCCDGYCIVLVC 77

Search completed: November 17, 2003, 17:11:58
 Job time : 14.9821 secs

Query Match 32.9% Score 50; DB 2; Length 78;
 Best Local Similarity 42.3%; Pred. No. 35;
 Matches 11; Conservative 2; Mismatches 11; Indels 2;
 Gaps 2;
 Qy 2 CIXSGDLCRSDHIGCCGCKC-AFVC 26
 Db 53 CROSGEMCNLDDQ-NCCDGYCIVLVC 77

RESULT 15
 US-08-716-308-16
 Sequence 16, Application US/08716308
 Parent No. 5885569
 GENERAL INFORMATION:
 APPLICANT: Windass, John D.
 TITLE OF INVENTION: Biological Insect Control Agent
 NUMBER OF SEQUENCES: 18
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ZENECA Inc.
 STREET: 1800 Concord Pike
 CITY: Wilmington
 STATE: DE
 COUNTRY: USA
 ZIP: 19850
 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/716,308
 FILING DATE: 24-SEP-1996
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB95/00677
 FILING DATE: 27-MAR-1995